



IDAHO DEPARTMENT  
OF HEALTH AND WELFARE  
DIVISION OF  
ENVIRONMENTAL QUALITY

1410 North Hilton, Boise, ID 83706-1255, (208) 334-0502

Philip E. Batt, Governor

August 26, 1996

**CERTIFIED MAIL #P 875 705 063**

Steve Groening, Plant Manager  
Unimin Corporation  
4601 Cascade Road  
Emmett, Idaho 83617

RE: Unimin Corporation (Emmett) - #9507-108-2  
Tier II Operating Permit (#045-00003)

Dear Mr. Groening:

On July 13, 1995, the Division of Environmental Quality (DEQ) received your Tier II Operating Permit (OP) application for Unimin Corporation - Emmett Plant, Idaho. The application was declared complete on November 1, 1995. On March 22, 1996, a proposed Tier II Operating Permit (OP) was issued for public comment. No comments were received.

Based on review of your application, state and federal rules and regulations, DEQ finds this project meets the provisions of IDAPA 16.01.01.400 (Rules for the Control of Air Pollution in Idaho). Therefore, I am pleased to enclose your Tier II OP (#045-00003) for the emission sources that exist at the facility.

You, as well as any other entity, may have the right to appeal this final agency action pursuant to the Idaho Department of Health and Welfare Rules, Title 5, Chapter 3, "Rules Governing Contested Case Proceedings and Declaratory Rulings," by filing a petition with the Hearings Coordinator, Department of Health and Welfare, Administrative Procedures Section, 450 West State Street - 10th Floor, Boise, Idaho 83720-5450, within thirty-five (35) days of the date of this decision.

Please be advised that this Tier II OP is subject to permit application fees of five hundred dollars (\$500.00) in accordance with IDAPA 16.01.01.470. IDAPA 16.01.01.470 became effective on March 7, 1995. Information regarding the permit application fees will be sent to you shortly.

If you have any questions regarding the terms or conditions of the enclosed permit, please contact Brian R. Monson, Chief, Operating Permits Bureau, at (208) 373-0502.

Sincerely,

Orville D. Green  
Assistant Administrator  
Permits & Enforcement

ODG\BRM\ABC:jrz...\permit\unimin\unimininf.COV

Enclosure

cc: J. Palmer, SWIRO  
P. Rayne  
Source File

COF

STATE OF IDAHO AIR POLLUTION OPERATING PERMIT   GENERAL INFORMATION	PERMIT NUMBER			
	0 4 5	-	0 0 0 0 3	
	AQCR	CLASS	Primary SIC	Secondary SIC
	0 6 3	A 2	1 4 4 6	[ ] [ ] [ ] [ ]
	ZONE	UTM COORDINATE (km)		
	1 1	5 3 6	8	4 8 5 7 [ ] 1

1. PERMITTEE Unimin Corporation (Emmett)		
2. PROJECT Tier II Operating Permit		
3. ADDRESS 4601 Cascade Road	TELEPHONE # (208)365-7153	COUNTY Gem
4. CITY Emmett	STATE Idaho	ZIP CODE 83617-9719
5. PERSON TO CONTACT Steve Groening	TITLE Plant Manager	
6. EXACT PLANT LOCATION NE 1/4, SW 1/4, S11, T6N, R2W		
7. GENERAL NATURE OF BUSINESS & KINDS OF PRODUCTS Industrial Sand		

8. GENERAL CONDITIONS

This permit is issued according to the Rules for the Control of Air Pollution in Idaho, Section 16.01.01.400 and pertains only to emissions of air contaminants which are regulated by the State of Idaho and to the sources specifically allowed to be operated by this permit.

THIS PERMIT HAS BEEN GRANTED ON THE BASIS OF DESIGN INFORMATION PRESENTED IN THE APPLICATION AND DEQ'S TECHNICAL ANALYSIS OF THE SUPPLIED INFORMATION. CHANGES IN DESIGN OR EQUIPMENT, THAT RESULT IN ANY CHANGE IN THE NATURE OR AMOUNT OF EMISSIONS, MAY BE A MODIFICATION. MODIFICATIONS ARE SUBJECT TO DEPARTMENT REVIEW IN ACCORDANCE WITH Section 16.01.01.200 OF THE Rules for the Control of Air Pollution in Idaho.

*Deville D. Green*  
 ASSISTANT ADMINISTRATOR  
 DIVISION OF ENVIRONMENTAL QUALITY

ISSUED AUGUST 26, 1996  
 Date  
 EXPIRES AUGUST 26, 2001  
 Date

## AIR POLLUTION OPERATING PERMIT

## PERMITTEE AND LOCATION

Unimin Corporation  
Tier II Operating Permit  
Emmett, Idaho

## PERMIT NUMBER

0	4	5	-	0	0	0	0	3
---	---	---	---	---	---	---	---	---

The Permittee is hereby allowed to operate the equipment described herein subject to the emission limits and monitoring and reporting requirements specified in this permit.

## SOURCE

Dust Collector DC-01 Stack

## 1. EMISSIONS LIMITS

1.1 Dust Collector DC-01 Stack Emissions Limits

Emissions of particulate matter (PM) and particulate matter with an aerodynamic diameter of ten (10) microns or less (PM-10) from this stack shall not exceed any corresponding emission rate limit, pounds per hour (lb/hr) and tons per year (T/yr), listed in Appendix A of this permit.

1.2 Dust Collector DC-01 Stack Emissions Opacity Limits

Visible emissions from dust collector DC-01 stack shall not exhibit greater than twenty percent (20%) opacity for a period or periods aggregating more than three (3) minutes in any sixty (60) minute period, as required by IDAPA 16.01.01.625 (Rules for the Control of Air Pollution in Idaho). Opacity shall be determined using procedures contained in the Department's "Procedures Manual for Air Pollution Control".

## 2. OPERATING REQUIREMENTS

2.1 The following emissions units shall be vented to the atmosphere through dust collector DC-01 stack:

Bucket Elevators, BE-01, BE-02, and BE-03;  
Vibrating Screens, VS-10 and VS-11; and  
Screw Conveyor, SC-02.

2.2 Dust collector DC-01 shall be a Bact, model MEV-12, high efficiency wet scrubber, or equivalent, with control efficiency 84.38%.

2.3 Pressure Drop Across the Dust Collector

The pressure drop across the dust collector DC-01 shall be maintained in accordance with manufacturer's specifications (greater than four (4) inches of water column). Documentation of the manufacturer's specifications shall remain on-site at all times and shall be made available to Department representatives upon request.

2.4 Scrubbing Media Flow Rate

Water flow rate to the dust collector DC-01 shall be maintained in accordance with manufacturer's specifications (greater than or equal to sixty (60) gallons per minute). Documentation of the manufacturer's specifications shall remain on-site at all times and shall be made available to Department representatives upon request.

2.5 Installation of Monitoring Equipment

The Permittee shall install, calibrate, maintain, and operate, in accordance with manufacturer's specifications, equipment to continuously measure the pressure differential across the dust collector DC-01, and to measure the scrubbing media flow rate to the dust collector DC-01.

ISSUED: AUGUST 26, 1996
EXPIRES: AUGUST 26, 2001

## AIR POLLUTION OPERATING PERMIT

## PERMITTEE AND LOCATION

Unimin Corporation  
Tier II Operating Permit  
Emmett, Idaho

## PERMIT NUMBER

0	4	5	-	0	0	0	0	3
---	---	---	---	---	---	---	---	---

The Permittee is hereby allowed to operate the equipment described herein subject to the emission limits and monitoring and reporting requirements specified in this permit.

## SOURCE

Dust Collector DC-01 Stack

## 3. MONITORING AND RECORDKEEPING REQUIREMENTS

3.1 The following parameters shall be monitored and recorded on a daily basis. All data shall be kept on-site in a log for a period of two (2) years and made available to Department representatives upon request.

3.1.1 Pressure drop across the dust collector DC-01; and

3.1.2 Scrubbing media flow rate to the dust collector DC-01.

ISSUED: AUGUST 26, 1996
EXPIRES: AUGUST 26, 2001

## AIR POLLUTION OPERATING PERMIT

## PERMITTEE AND LOCATION

Unimin Corporation  
Tier II Operating Permit  
Emmett, Idaho

## PERMIT NUMBER

0	4	5	-	0	0	0	0	3
---	---	---	---	---	---	---	---	---

The Permittee is hereby allowed to operate the equipment described herein subject to the emission limits and monitoring and reporting requirements specified in this permit.

## SOURCE

Dust Collector DC-02 Stack

## 1. EMISSIONS LIMITS

1.1 Dust Collector DC-02 Stack Emissions Limits

Emissions of particulate matter (PM) and particulate matter with an aerodynamic diameter of ten (10) microns or less (PM-10) from this stack shall not exceed any corresponding emission rate limit, pounds per hour (lb/hr) and tons per year (T/yr), listed in Appendix A of this permit.

1.2 Opacity Limits

Fugitive visible emissions from vibrating screens, VS-07 and VS-08 shall not exhibit greater than ten percent (10%) opacity as required by 40 CFR 60.672(b). Opacity shall be determined using procedures contained in the Department's "Procedures Manual for Air Pollution Control".

## 2. OPERATING REQUIREMENTS

2.1 The following emissions units shall be vented to the atmosphere through dust collector DC-02 stack:

Bucket Elevators, BE-04 and BE-05;  
Nine (9) Vibrating Screens, VS-01 to VS-09;  
Eleven (11) Bins, BN-01 to BN-11; and  
Belt Conveyors, BC-05, BC-06, BC-08, BC-09, and BC-10.

2.2 Dust collector DC-02 shall be a Bact, model A-33-14, high efficiency wet scrubber, or equivalent, with control efficiency 95.30%.

2.3 Pressure Drop Across the Dust Collector

The pressure drop across the dust collector DC-02 shall be maintained in accordance with manufacturer's specifications (greater than two (2) inches of water column). Documentation of the manufacturer's specifications shall remain on-site at all times and shall be made available to Department representatives upon request.

2.4 Scrubbing Media Flow Rate

Water flow rate to the dust collector DC-02 shall be maintained in accordance with manufacturer's specifications (greater than or equal to seventy (70) gallons per minute). Documentation of the manufacturer's specifications shall remain on-site at all times and shall be made available to Department representatives upon request.

2.5 Installation of Monitoring Equipment

The Permittee shall install, calibrate, maintain, and operate, in accordance with manufacturer's specifications, equipment to continuously measure the pressure differential across the dust collector DC-02, and to measure the scrubbing media flow rate to the dust collector DC-02.

ISSUED: AUGUST 26, 1996
EXPIRES: AUGUST 26, 2001

## AIR POLLUTION OPERATING PERMIT

## PERMIT NUMBER

## PERMITTEE AND LOCATION

Unimin Corporation  
Tier II Operating Permit  
Emmett, Idaho

0	4	5	-	0	0	0	0	3
---	---	---	---	---	---	---	---	---

The Permittee is hereby allowed to operate the equipment described herein subject to the emission limits and monitoring and reporting requirements specified in this permit.

## SOURCE

Dust Collector DC-02 Stack

## 3. MONITORING AND RECORDKEEPING REQUIREMENTS

3.1 The following parameters shall be monitored and recorded on a daily basis. All data shall be kept on-site in a log for a period of two (2) years and made available to Department representatives upon request.

3.1.1 Pressure drop across the dust collector DC-02; and

3.1.2 Scrubbing media flow rate to the dust collector DC-02.

3.2 Performance Test

The Permittee shall conduct the performance test required by 40 CFR 60.8 in accordance with 40 CFR 60.675. The performance test shall be conducted on the dust collector stack DC-02 in accordance with the requirements of 40 CFR 60.8 and 40 CFR 60.675, and in accordance with the General Provision I of this permit.

## 4. REPORTING REQUIREMENTS

4.1 Performance Test Protocol

The Permittee shall submit a protocol for the performance test required in Section 4.2 of this permit, to the Department, for approval at a minimum of thirty (30) days prior to the test date.

4.2 Performance Test Report

The Permittee shall submit a written report of the dust collector DC-02 stack performance test to the Department within thirty (30) days after performing the test. The information required to be recorded during the performance test shall also be submitted as part of the report.

4.3 Other Reporting Requirements

The Permittee shall comply with the reporting and recordkeeping requirements required by 40 CFR 60.676.

4.4 Certification of Documents

All documents, including, but not limited to, records, monitoring data, supporting information, testing reports or compliance certifications submitted to the Department shall contain a certification by a responsible official in accordance with IDAPA 16.01.01.123. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.

ISSUED: AUGUST 26, 1996
EXPIRES: AUGUST 26, 2001

## AIR POLLUTION OPERATING PERMIT

## PERMITTEE AND LOCATION

Unimin Corporation  
Tier II Operating Permit  
Emmett, Idaho

## PERMIT NUMBER

045 - 00003

The Permittee is hereby allowed to operate the equipment described herein subject to the emission limits and monitoring and reporting requirements specified in this permit.

## SOURCE

Dust Collector DC-03 Stack

## 1. EMISSIONS LIMITS

1.1 Dust Collector DC-03 Stack Emissions Limits

Emissions of particulate matter (PM), particulate matter with an aerodynamic diameter of ten (10) microns or less (PM-10), sulfur dioxide (SO<sub>2</sub>), oxides of nitrogen (NO<sub>x</sub>), carbon monoxide (CO), and volatile organic compounds (VOC) from this stack, shall not exceed any corresponding emission rate limit, pounds per hour (lb/hr) and tons per year (T/yr), listed in Appendix A of this permit.

1.2 Dust Collector DC-03 Stack Emissions Opacity Limits

Visible emissions from dust collector DC-03 stack shall not exhibit greater than twenty percent (20%) opacity for a period or periods aggregating more than three (3) minutes in any sixty (60) minute period, as required by IDAPA 16.01.01.625 (Rules for the Control of Air Pollution in Idaho). Opacity shall be determined using procedures contained in the Department's "Procedures Manual for Air Pollution Control".

## 2. OPERATING REQUIREMENTS

2.1 The following emissions units shall be vented to the atmosphere through dust collector DC-03 stack:

Dryer, DR-01; and  
Burner, BU-01.

2.2 Dust collector shall be a Bact, model ME-V21, high efficiency wet scrubber, or equivalent, with control efficiency 99.83%.

2.3 Pressure Drop Across the Dust Collector

The pressure drop across the dust collector DC-03 shall be maintained in accordance with manufacturer's specifications (greater than six (6) inches of water column). Documentation of the manufacturer's specifications shall remain on-site at all times and shall be made available to Department representatives upon request.

2.4 Scrubbing Media Flow Rate

Water flow rate to the dust collector DC-02 shall be maintained in accordance with manufacturer's specifications (greater than or equal to one hundred ten (110) gallons per minute). Documentation of the manufacturer's specifications shall remain on-site at all times and shall be made available to Department representatives upon request.

2.5 Installation of Monitoring Equipment

The Permittee shall install, calibrate, maintain, and operate, in accordance with manufacturer's specifications, equipment to continuously measure the pressure differential across the dust collector DC-03, and to measure the scrubbing media flow rate to the dust collector DC-03.

ISSUED: AUGUST 26, 1996  
EXPIRES: AUGUST 26, 2001

## AIR POLLUTION OPERATING PERMIT

## PERMITTEE AND LOCATION

Unimin Corporation  
Tier II Operating Permit  
Emmett, Idaho

## PERMIT NUMBER

045 - 00003

The Permittee is hereby allowed to operate the equipment described herein subject to the emission limits and monitoring and reporting requirements specified in this permit.

## SOURCE

Dust Collector DC-03 Stack

## 3. MONITORING AND RECORDKEEPING REQUIREMENTS

3.1 The following parameters shall be monitored and recorded on a daily basis. All data shall be kept on-site in a log for a period of two (2) years and made available to Department representatives upon request.

3.1.1 Pressure drop across the dust collector DC-03; and

3.1.2 Scrubbing media flow rate to the dust collector DC-03.

ISSUED: AUGUST 26, 1996  
EXPIRES: AUGUST 26, 2001

## AIR POLLUTION OPERATING PERMIT

## PERMITTEE AND LOCATION

Unimin Corporation  
Tier II Operating Permit  
Emmett, Idaho

## PERMIT NUMBER

0	4	5	-	0	0	0	0	3
---	---	---	---	---	---	---	---	---

The Permittee is hereby allowed to operate the equipment described herein subject to the emission limits and monitoring and reporting requirements specified in this permit.

## SOURCE

Dust Collector DC-04 Stack

## 1. EMISSIONS LIMITS

1.1 Dust Collector DC-04 Stack Emissions Limits

Emissions of particulate matter (PM) and particulate matter with an aerodynamic diameter of ten (10) microns or less (PM-10) from this stack shall not exceed any corresponding emission rate limit, pounds per hour (lb/hr) and tons per year (T/yr), listed in Appendix A of this permit.

1.2 Dust Collector DC-04 Stack Emissions Opacity Limits

Visible emissions from dust collector DC-04 stack shall not exhibit greater than twenty percent (20%) opacity for a period or periods aggregating more than three (3) minutes in any sixty (60) minute period, as required by IDAPA 16.01.01.625 (Rules for the Control of Air Pollution in Idaho). Opacity shall be determined using procedures contained in the Department's "Procedures Manual for Air Pollution Control".

## 2. OPERATING REQUIREMENTS

2.1 The following emissions units shall be vented to the atmosphere through dust collector DC-04 stack:

Hopper, HO-05;  
Belt Conveyor BC-07; and  
Bagging stations, BG-01, BG-02, and BG-03.

2.2 Dust collector DC-04 shall be a Bact, model ME-VOO6, high efficiency wet scrubber, or equivalent, with control efficiency 97.07%.

2.3 Pressure Drop Across the Dust Collector

The pressure drop across the dust collector DC-04 shall be maintained in accordance with manufacturer's specifications (greater than two (2) inches of water column). Documentation of the manufacturer's specifications shall remain on-site at all times and shall be made available to Department representatives upon request.

2.4 Scrubbing Media Flow Rate

Water flow rate to the dust collector DC-04 shall be maintained in accordance with manufacturer's specifications (greater than or equal to thirty (30) gallons per minute). Documentation of the manufacturer's specifications shall remain on-site at all times and shall be made available to Department representatives upon request.

2.5 Installation of Monitoring Equipment

The Permittee shall install, calibrate, maintain, and operate, in accordance with manufacturer's specifications, equipment to continuously measure the pressure differential across the dust collector DC-04, and to measure the scrubbing media flow rate to the dust collector DC-04.

ISSUED: AUGUST 26, 1996
EXPIRES: AUGUST 26, 2001

## AIR POLLUTION OPERATING PERMIT

## PERMIT NUMBER

## PERMITTEE AND LOCATION

Unimin Corporation  
Tier II Operating Permit  
Emmett, Idaho

045 - 00003

The Permittee is hereby allowed to operate the equipment described herein subject to the emission limits and monitoring and reporting requirements specified in this permit.

## SOURCE

Dust Collector DC-04 Stack

## 3. MONITORING AND RECORDKEEPING REQUIREMENTS

- 3.1 The following parameters shall be monitored and recorded on a daily basis. All data shall be kept on-site in a log for a period of two (2) years and made available to Department representatives upon request.
- 3.1.1 Pressure drop across the dust collector DC-04; and
  - 3.1.2 Scrubbing media flow rate to the dust collector DC-04.

ISSUED: AUGUST 26, 1996  
EXPIRES: AUGUST 26, 2001

## AIR POLLUTION OPERATING PERMIT

## PERMITTEE AND LOCATION

Unimin Corporation  
Tier II Operating Permit  
Emmett, Idaho

## PERMIT NUMBER

045 - 00003

The Permittee is hereby allowed to operate the equipment described herein subject to the emission limits and monitoring and reporting requirements specified in this permit.

## SOURCE

Wet Plant Feeding and Processing

## 1. EMISSIONS LIMITS

1.1 Wet Plant Feeding Emissions Limits

Emissions of particulate matter (PM) and particulate matter with an aerodynamic diameter of ten (10) microns or less (PM-10) from hopper HO-01, feeder FE-01, and belt conveyor BC-01 shall not exceed any corresponding emission rate limit, pounds per hour (lb/hr) and tons per year (T/yr), listed in Appendix A of this permit.

1.2 Wet Process Emissions Limits

No emissions of any air pollutants shall be emitted from screening, milling, transferring, conditioning, pumping, or stockpiling of sand in the wet plant.

1.3 Wet Plant Feeding Emissions Opacity Limits

Visible emissions from sand feeding to the wet plant shall not exhibit greater than twenty percent (20%) opacity for a period or periods aggregating more than three (3) minutes in any sixty (60) minute period, as required by IDAPA 16.01.01.625 (Rules for the Control of Air Pollution in Idaho). Opacity shall be determined using procedures contained in the Department's "Procedures Manual for Air Pollution Control".

1.4 Wet Process Emissions Opacity Limits

No visible emissions shall be observed from screening, milling, transferring, conditioning, pumping, or stockpiling of sand in the wet plant.

## 2. OPERATING REQUIREMENTS

2.1 Raw Sand Moisture Content

The moisture content of feed raw sand to the wet plant shall be greater than 1.5% at all times.

2.2 Moisture Content in the Wet Plant

Sand in the wet plant process shall be completely saturated with water at all times.

## 3. MONITORING AND RECORDKEEPING REQUIREMENTS

3.1 The following parameters shall be monitored and recorded on a quarterly basis. All data shall be kept on-site in a log for a period of two (2) years and made available to Department representative upon request.

3.1.1 Moisture content of feed raw sand to the wet plant process.

ISSUED: AUGUST 26, 1996  
EXPIRES: AUGUST 26, 2001

## AIR POLLUTION OPERATING PERMIT

## PERMITTEE AND LOCATION

Unimin Corporation  
Tier II Operating Permit  
Emmett, Idaho

## PERMIT NUMBER

0	4	5	-	0	0	0	0	3
---	---	---	---	---	---	---	---	---

The Permittee is hereby allowed to operate the equipment described herein subject to the emission limits and monitoring and reporting requirements specified in this permit.

## SOURCE

Dryer Feeding Operation

## 1. EMISSIONS LIMITS

1.1 Dryer Operation Feeding Emissions Limits

Emissions of particulate matter (PM) and particulate matter with an aerodynamic diameter of ten (10) microns or less (PM-10) from hopper HO-02, screw conveyor SC-01, and belt conveyor BC-02 shall not exceed any corresponding emission rate limit, pounds per hour (lb/hr) and tons per year (T/yr), listed in Appendix A of this permit.

1.2 Dryer Operation Feeding Emissions Opacity Limits

Visible emissions from sand feeding to the dryer operation shall not exhibit greater than twenty percent (20%) opacity for a period or periods aggregating more than three (3) minutes in any sixty (60) minute period, as required by IDAPA 16.01.01.625 (Rules for the Control of Air Pollution in Idaho). Opacity shall be determined using procedures contained in the Department's "Procedures Manual for Air Pollution Control".

## 2. OPERATING REQUIREMENTS

2.1 Sand Moisture Content

The moisture content of feed sand to the dryer operation shall be greater than 1.5% at all times.

## 3. MONITORING AND RECORDKEEPING REQUIREMENTS

3.1 The following parameters shall be monitored and recorded on a quarterly basis. All data shall be kept on-site in a log for a period of two (2) years and made available to Department representative upon request.

3.1.1 Moisture content of feed sand to the dryer operation.

ISSUED: AUGUST 26, 1996
EXPIRES: AUGUST 26, 2001

AIR POLLUTION OPERATING PERMIT

PERMITTEE AND LOCATION

Unimin Corporation  
Tier II Operating Permit  
Emmett, Idaho

PERMIT NUMBER

045 - 00003

The Permittee is hereby allowed to operate the equipment described herein subject to the emission limits and monitoring and reporting requirements specified in this permit.

SOURCE

Loadout Operations

1. EMISSIONS LIMITS

1.1 Loadout Operation Emissions Limits

Emissions of particulate matter (PM) and particulate matter with an aerodynamic diameter of ten (10) microns or less (PM-10) from hoppers HO-03 and HO-04, belt conveyors BC-11 and BC-12, and bulk loading 11C shall not exceed any corresponding emission rate limit, pounds per hour (lb/hr) and tons per year (T/yr), listed in Appendix A of this permit.

1.2 Loadout Operation Emissions Opacity Limits

Visible emissions from sand loading, feeding, or conveying in the loadout operation shall not exhibit greater than twenty percent (20%) opacity for a period or periods aggregating more than three (3) minutes in any sixty (60) minute period, as required by IDAPA 16.01.01.625 (Rules for the Control of Air Pollution in Idaho). Opacity shall be determined using procedures contained in the Department's "Procedures Manual for Air Pollution Control".

2. OPERATING REQUIREMENTS

2.1 Sand Moisture Content

The moisture content of feed sand to hopper HO-03 and belt conveyor BC-12 shall be greater than 1.5% at all times.

3. MONITORING AND RECORDKEEPING REQUIREMENTS

3.1 The following parameters shall be monitored and recorded on a quarterly basis. All data shall be kept on-site in a log for a period of two (2) years and made available to Department representative upon request.

3.1.1 Moisture content of feed sand to hopper HO-03 and belt conveyor BC-12.

ISSUED: AUGUST 26, 1996  
EXPIRES: AUGUST 26, 2001

## AIR POLLUTION OPERATING PERMIT

## PERMITTEE AND LOCATION

Unimin Corporation  
Tier II Operating Permit  
Emmett, Idaho

## PERMIT NUMBER

045 - 00003

The Permittee is hereby allowed to operate the equipment described herein subject to the emission limits and monitoring and reporting requirements specified in this permit.

## SOURCE

Stockpiles and Plant Roads

## 1. OPERATING REQUIREMENTS

- 1.1 Fugitive emissions generated from, stockpiles and traffic on paved or unpaved roads shall be reasonably controlled in accordance with IDAPA 16.01.01.650 (Rules for the Control of Air Pollution in Idaho). Some of the efficient and reasonable controls may include, but shall not be limited to the following:
- 1.1.1 Use of water or environmentally safe chemicals;
  - 1.1.2 Application of dust suppressants;
  - 1.1.3 Use of control equipment;
  - 1.1.4 Covering of trucks;
  - 1.1.5 Paving roads; and
  - 1.1.6 Prompt removal of earth or other stored material from streets, where practical.

ISSUED: AUGUST 26, 1996  
EXPIRES: AUGUST 26, 2001

**Appendix A**  
**Unimin Corporation - Emmett**  
**Hourly (lb/hr) and Annual (T/yr) Point Source Emissions Limits<sup>a</sup>**

Source	PM		PM-10		SO <sub>2</sub>		CO		NO <sub>x</sub>		VOC	
	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
Dust Controller DC-01 Stack	2.646	11.590	1.166	5.108	-----	-----	-----	-----	-----	-----	-----	-----
Dust Controller DC-02 Stack	2.653	11.619	0.980	4.291	-----	-----	-----	-----	-----	-----	-----	-----
Dust Controller DC-03 Stack	3.572	15.644	1.832	8.023	0.012	0.052	0.693	3.035	2.772	12.141	0.055	0.241
Dust Controller DC-04 Stack	1.029	4.508	0.014	0.060	-----	-----	-----	-----	-----	-----	-----	-----
Emissions from Wet Plant, no dust collector	2.920	12.790	0.052	0.228	-----	-----	-----	-----	-----	-----	-----	-----
Emissions from Dryer Operation, no dust collector	1.752	7.674	0.031	0.137	-----	-----	-----	-----	-----	-----	-----	-----
Emissions from Loadout Operation, no dust collector	6.950	30.441	0.269	1.178	-----	-----	-----	-----	-----	-----	-----	-----
<b>Total</b>	<b>21.522</b>	<b>94.266</b>	<b>4.344</b>	<b>19.025</b>	<b>0.012</b>	<b>0.052</b>	<b>0.693</b>	<b>3.035</b>	<b>2.772</b>	<b>12.141</b>	<b>0.055</b>	<b>0.241</b>

- a. As determined by a pollutant specific U.S. EPA reference method, Department approved alternative, or as determined by the Department's emission estimation methods used in the permit application analysis.

**ISSUED: AUGUST 26, 1996**  
**EXPIRES: AUGUST 26, 2001**

**OPERATING PERMIT GENERAL PROVISIONS**

- A. All emissions authorized herein shall be consistent with the terms and conditions of this permit. The emission of any pollutant in excess of the limitations specified herein, or noncompliance with any other condition or limitation contained in this permit, shall constitute a violation of this permit and the **Rules for the Control of Air Pollution in Idaho**, and the Environmental Protection and Health Act, Idaho Code 39-101 et. seq.
- B. The Permittee shall at all times (except as provided in the **Rules for the Control of Air Pollution in Idaho**) maintain in good working order and operate as efficiently as practicable, all treatment or control facilities or systems installed or used to achieve compliance with the terms and conditions of this permit and other applicable laws for the control of air pollution.
- C. The Permittee shall allow the Director, and/or his authorized representative(s), upon the presentation of credentials:
- 1) To enter upon the Permittee's premises where an emission source is located, or in which any records are required to be kept under the terms and conditions of this permit; and
  - 2) At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit, to inspect any monitoring methods required in this permit, and to require stack emission testing (i.e., performance tests) in conformance with state approved or accepted EPA procedures when deemed appropriate by the Director.
- D. Except for data determined to be confidential under Section 39-111, Idaho Code, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the appropriate regional office of the Division of Environmental Quality.
- E. Nothing in this permit is intended to relieve or exempt the Permittee from compliance with any applicable federal, state, or local law or regulation, except as specifically provided herein.
- F. In the event of any change in control or ownership of source(s) from which the authorized emissions emanate, the Permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the Director.
- G. This permit shall be renewable on the expiration date, provided the Permittee submits any and all information necessary for the Director to determine the amount and type of air pollutants emitted from the equipment for which this permit is granted. Failure to submit such information within sixty (60) days after receipt of the Director's request shall cause the permit to be voided.
- H. The Director may require the Permittee to develop a list of Operation and Maintenance Procedures which must be approved by the Department. Such list of procedures shall become a part of this permit by reference, and the Permittee shall adhere to all of the operation and maintenance procedures contained therein.

ISSUED: AUGUST 26, 1996  
EXPIRES: AUGUST 26, 2001

- I. Performance tests (i.e.; air emission source tests) conducted pursuant to testing requirements in this permit must be conducted in accordance with the Department's **Procedures Manual for Air Pollution Control**. Such testing shall not be conducted on weekends or state holidays unless the permittee obtains prior Department approval.

The permittee shall submit a test protocol and a proposed test date for each performance test required by this permit to the Department for approval at least thirty (30) days prior to each respective test date (including each test date for periodic tests such as, for example, annual tests). The permittee shall promptly notify the Department of any change in the proposed test date and shall provide at least five (5) working days advanced notice prior to conducting any rescheduled test, unless the Department approves a shorter notice period.

Within forty-five (45) days of the date on which a performance test required by this permit is concluded, the permittee shall submit to the Department a performance test report for the respective test. The performance test report shall include any and all process operating data required to be recorded during the test period as well as the test results, raw test data, and associated documentation.

The maximum allowable source operating rate shall be limited to 120% of the average operating rate attained during the most recent performance test conducted pursuant to this permit which demonstrated compliance with the respective pollutant emission limit unless; (1) a more restrictive operating limit is specified elsewhere in this permit or; (2) at such an operating rate, emissions would exceed any emission limit(s) set forth in this permit.

- J. The provisions of this permit are severable; and if any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

ISSUED: AUGUST 26, 1996  
EXPIRES: AUGUST 26, 2001